ZOOLOGICA

SCIENTIFIC CONTRIBUTIONS OF THE NEW YORK ZOOLOGICAL SOCIETY

VOLUME 58 • 1973 • NUMBERS 1-4

PUBLISHED BY THE SOCIETY
The ZOOLOGICAL PARK, *New York*

NEW YORK ZOOLOGICAL SOCIETY
The Zoological Park, Bronx, N. Y. 10460

Laurance S. Rockefeller
Chairman, Board of Trustees

Robert G. Goelet
President

Howard Phipps, Jr.
Chairman, Executive Committee

Henry Clay Frick, II
Vice-President

George F. Baker, Jr.
Vice-President

Charles W. Nichols, Jr.
Vice-President

John Pierrepont
Treasurer

Augustus G. Paine
Secretary

William G. Conway
General Director

ZOOLOGICAL PARK
William G. Conway, *Director & Chairman, Dept. of Ornithology;* Joseph Bell, *Curator, Ornithology;* Donald F. Bruning, *Associate Curator, Ornithology;* Hugh B. House, *Curator, Mammalogy;* James G. Doherty, *Associate Curator, Mammalogy;* F. Wayne King, *Curator, Herpetology;* John L. Behler, *Associate Curator, Herpetology;* Joseph A. Davis, *Scientific Assistant to the Director;* Walter Auffenberg, *Research Associate in Herpetology;* William Bridges, *Curator of Publications Emeritus;* Grace Davall, *Curator Emeritus*

AQUARIUM
James A. Oliver, *Director;* George D. Ruggieri, S.J., *Associate Director;* William S. Flynn, *Curator;* Louis Mowbray, *Research Associate, Field Biology*

OSBORN LABORATORIES OF MARINE SCIENCES
George D. Ruggieri, S.J., *Director & Experimental Embryologist;* Ross F. Nigrelli, *Senior Scientist;* Martin F. Stempien, Jr., *Assistant to the Director & Bio-Organic Chemist;* Jack T. Cecil, *Virologist;* Paul J. Cheung, *Microbiologist;* Joginder S. Chib, *Chemist;* Kenneth Gold, *Marine Ecologist;* Myron Jacobs, *Neuroanatomist;* Klaus D. Kallman, *Fish Geneticist;* Kathryn S. Pokorny, *Electron Microscopist;* Eli D. Goldsmith, *Scientific Consultant;* Erwin J. Ernst, *Research Associate, Estuarine & Coastal Ecology;* Martin P. Schreibman, *Research Associate, Fish Endocrinology*

CENTER FOR FIELD BIOLOGY AND CONSERVATION
George Schaller, *Research Zoologist & Co-ordinator;* Thomas Struhsaker, Roger Payne, *Research Zoologists;* Donald F. Bruning, *Research Associate*

ANIMAL HEALTH
Emil P. Dolensek, *Veterinarian; Consultants:* John Budinger, *Pathology;* Ben Sheffy, *Nutrition;* Gary L. Rumsey, *Avian Nutrition;* Kendall L. Dodge, *Ruminant Nutrition;* Robert Byck, *Pharmacology;* Jacques B. Wallach, *Clinical Pathology;* Edward Garner, Dennis F. Craston, Ralph Stebel, Joseph Conetta, *Comparative Pathology & Toxicology;* Harold S. Goldman, *Radiology;* Roy Bellhorn, Paul Henkind, Alan Friedman, *Comparative Ophthalmology;* Lucy Clausen, *Parasitology;* Jay Hyman, *Aquatic Mammal Medicine;* Theodore Kazimiroff, *Dentistry;* Alan Belson, *Resident in Pathology*

ZOOLOGICA STAFF
Eugene J. Walter, Jr., *Editor & Curator, Publications and Public Relations*

Joan Van Haasteren, *Assistant Curator, Publications & Public Relations*

F. Wayne King
Scientific Editor

AAZPA SCIENTIFIC ADVISORY COMMITTEE
Ingeborg Poglayen, Louisville (Kentucky) Zoological Gardens, *Chairman*; William G. Conway, New York Zoological Society; Gordon Hubbell, Crandon Park Zoo, Miami; F. Wayne King, New York Zoological Society; John Mehrtens, Columbia (South Carolina) Zoological Park; Gunter Voss, Metro Toronto Zoo, Canada

© 1974 New York Zoological Society.
All rights reserved.

Contents

Issue 1. August 29, 1973

PAGE

1. Observations on the Acoustic Behavior of Crocodilians. By HOWARD W. CAMPBELL. Figures 1-6 1

2. The Behavior of the Red-winged Tinamou, *Rhynchotus rufescens*. By SAM E. WEEKS. Figures 1-5; Table 1 13

NEWS AND NOTES:

Observations on the Birth of a Kinkajou, *Potos flavus* (Schreber 1774). By IVO POGLAYEN-NEUWALL 41

The Identification of *Crocodylus siamensis* Schneider. By PETER BRAZAITIS. Figures 1-2 43

Issue 2. October 18, 1973

3. Some Observations on the Growth of Captive Alligators. By THOMAS D. COULSON, RONALD A. COULSON, AND THOMAS HERNANDEZ. Figures 1-2 47

NEWS AND NOTES:

Some Observations on the Maned Wolf, *Chrysocyon brachyurus,* in Paraguay. By DENNIS A. MERRITT, JR. 53

Scent Marking in the Red Brocket, *Mazama americana*. By NICHOLAS VOLKMAN AND KATHERINE RALLS. Figure 1 55

Issue 3-4. July 12, 1974

4. The Identification of Living Crocodilians. By PETER BRAZAITIS. Figures 1-31 59

NEWS AND NOTES:

Observations on the Status of the Giant Armadillo, *Priodontes giganteus*, in Paraguay. By DENNIS A. MERITT, JR. 103

INDEX TO VOLUME 58 104